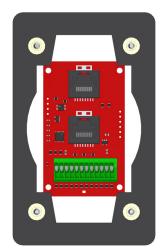
Datasheet

Description

The NuLEDs Input Module is a versatile and scalable solution designed to enhance the integration and control of multiple systems within a space. Featuring 6 dry contact closure inputs, this board enables seamless communication and interaction with a variety of devices, including sensors, switches, and third-party control systems. Its robust design ensures reliability, flexibility, and ease of use, making it an ideal choice for customized and automated control scenarios.

The Input Module delivers reliable performance and enhanced control capabilities, providing an adaptable and future-ready platform for managing integrated systems efficiently.





Stock#	Description			
CONT-INPU-06-TP	Contact Closure Input Module			

Features

1. Versatile Integration

- Interfaces with a wide range of systems using dry contact closures.
- Compatible with sensors, switches, relays, and third-party control systems.

2. Expandable Capacity

- Six input channels for connecting multiple devices or sensors.
- Easily add additional boards for system expansion.

3. Flexible Control

- Configurable inputs to trigger actions within the NuLEDs PoE lighting system or other integrated systems.
- Supports control of lighting, HVAC, security features, and more.

4. Seamless Automation

- Automates responses based on external triggers, such as occupancy sensors or manual switches.
- Enables automatic lighting adjustments and custom scene activations.

5. Enhanced Customization

- · Tailor control scenarios to meet specific needs.
- Supports programming for unique interactions, including Demand Response triggers.

6. Reliability and Compatibility

- Proven reliability of dry contact closures ensures seamless communication.
- Compatible with a broad range of devices and systems.

7. Scalability and Future-Proof Design

- Modular design allows for easy expansion and adaptation to new technologies.
- Accommodates evolving system requirements over time.

8. Plug-and-Play Installation

- · Uses CAT cables for quick and easy setup
- Integrates seamlessly with NuLEDs PoE lighting systems, supporting ALS, PIR sensors, and wall controllers.



Datasheet

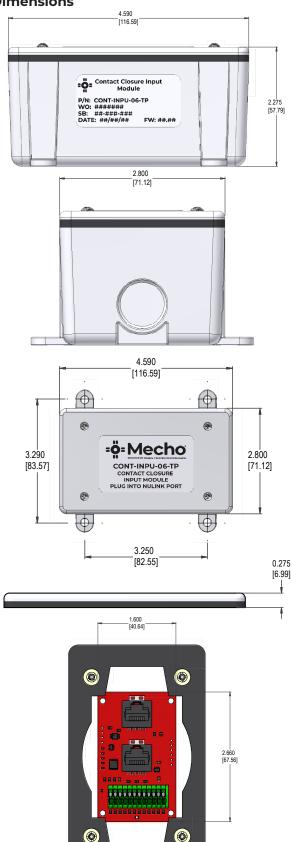
Specifications

	Farriage and Mit					
	Equipment Kit					
Contact Closure In	Contact Closure Input Module, Installation Guide					
	Hardware					
Standby Power	<1 Watt					
Power Supply	SPICEbox™ NuLINK™ Bus					
RJ45 Ports	2 Ports					
Protocols	NuSPICE™					
Wiring	Category 5e/6 Ethernet cable to EIP SPICEBox					
Maximum Wiring Length	50' from SPICEbox™					
	Mechanical					
Dimensions (L X W X H)	6.4 in. x 5.08 in. x 1.48 in. (162.56 mm x 129.03 mm x 37.59 mm)					
Weight	~0.48 lbs. (~0.21 kg)					
Mounting	Housing Wall mounted with screws and wall anchors.					
Dimming	Programmable with NuSPICE™					
	Environmental					
Operating Temperature	32° to 104°F (0° to 40°C) ambient					
Humidity	10-80% Non-Condensing					
Agency Listings and Compliance						
FCC Class A Compliant						
CE Compliant						
RoHS	RoHS					

Marning

- Caution Observe precautions for handling electrostatic sensitive devices.
- Do not use outdoors.
- Warning Risk of Electric Shock. Do not handle energized module with wet hands or when standing on wet or damp surfaces.
- Conforms to CE, FCC standards
- Warranty Voided if device has been modified from its original configuration.

Dimensions

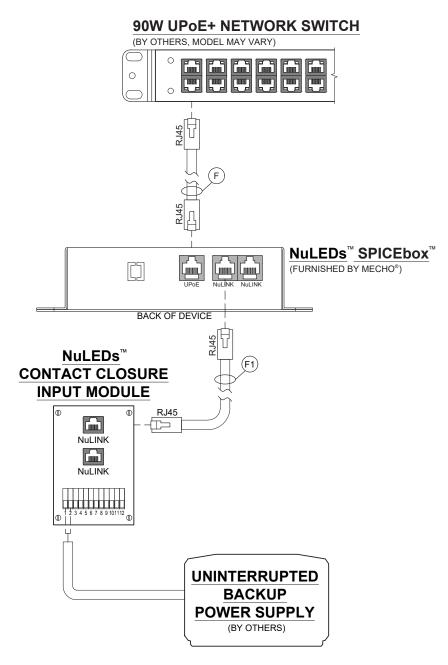




Datasheet

Contact Closure Input Module on UPoE & NuLink™ Network

NOTE: Only one Contact Closure Input Module can be connected per SPICEbox™.

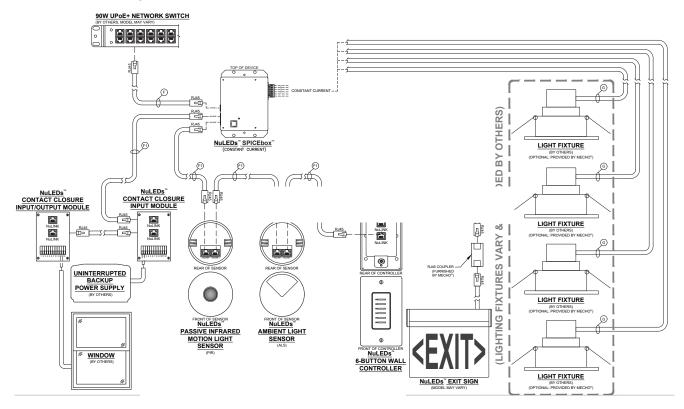


NOTE: Refer to page 7 for the Low Voltage Cable Legend and Crimping Instructions.



Datasheet

Point-to-Point Diagram



NOTE: Refer to page 7 for the Low Voltage Cable Legend and Crimping Instructions.



Datasheet

Cable Reference Drawing

Riser Solid OR Stranded Annealed Copper Conductor Rip Cord PVC Insulation Flame Retardant PVC Jacket Drawing not to scale Plenum Solid OR Stranded Annealed Copper Conductor Rip Cord Low Smoke PVC Insulation Flame Retardant PVC Jacket Drawing not to scale

SPECIFICATIONS:

CONDUCTOR COUNT: 2 THRU 12 CONDUCTORS

CONDUCTOR: FULLY ANNEALED, SOLID OR

STRANGED BARE COPPER

AWG (mm): 18 (1.16)

INSULATION: LOW SMOKE PVC

INSULATION COLORS: CONDUCTOR 1: BLACK

CONDUCTOR 2: RED
CONDUCTOR 3: WHITE
CONDUCTOR 4: GREEN
CONDUCTOR 5: BROWN
CONDUCTOR 6: BLUE
CONDUCTOR 7: ORANGE
CONDUCTOR 8: YELLOW
CONDUCTOR 9: VIOLET
CONDUCTOR 10: GRAY
CONDUCTOR 11: PINK

NDUCTOR 2: RED NRTL PROGRAMS:
NDUCTOR 3: WHITE

PERFORMANCE COMPLIANCE:

NEC ARTICLE 800 NEC ARTICLE 760 UL®13 CL3R/CL3P UL 444 CMR/CMP* UL 1424 FPLR/FPLP UL 1666

NEC ARTICLE 725

NFPA 262 CALIFORNIA STATE FIRE MARSHALL

RoHS-COMPLIANT/RoHS 2-COMPLIANT

UL LISTED CL3R, CMR, FPLR UL LISTEN CL3P, CMP, FPLP

JACKET: RISER: GRAY, FLAME RETARDANT (FR) PVC PLENUM: WHITE, LOW SMOKE PVC

PACKAGE: BLACK, RIBBED, PLASTIC RECYCLABLE SPOOL,

REEL-IN-A-BOX OR WOOD REEL

Part Numbers and Physical Characteristics:

	-						
Listing	Part Number¹	Conductor Count	AWG (mm)	Conductor Type	Jacket Color ²	Nominal Diameter in (mm)	Approx. Weight lbs/kft (kg/km)
CL3R/CMR/FPLR	2F-C1x-31	2	18 (1.16)	7 x 26 AWG	GRAY	0.16 (4.1)	17 (25)
CL3R/CMR/FPLR	2F-C2x-31	3	18 (1.16)	7 x 26 AWG	GRAY	0.17 (4.3)	22 (9)
CL3R/CMR/FPLR	2F-C3x-31	4	18 (1.16)	7 x 26 AWG	GRAY	0.19 (4.8)	30 (45)
CL3R/CMR/FPLR	2F-C4x-31	6	18 (1.16)	7 x 26 AWG	GRAY	0.23 (5.8)	43 (64)
CL3R/CMR/FPLR	2F-C5x-31	8	18 (1.16)	7 x 26 AWG	GRAY	0.25 (6.4)	56 (83)
CL3R/CMR/FPLR	2F-C7x-31	12	18 (1.16)	7 x 26 AWG	GRAY	0.30 (7.6)	83 (124)
CL3P/CMP/FPLP	2F-C1x-43	2	18 (1.16)	7 x 26 AWG	WHITE	0.16 (4.1)	17 (25)
CL3P/CMP/FPLP	2F-C2x-43	3	18 (1.16)	7 x 26 AWG	WHITE	0.17 (4.3)	22 (9)
CL3P/CMP/FPLP	2F-C3x-43	4	18 (1.16)	7 x 26 AWG	WHITE	0.19 (4.8)	30 (45)
CL3P/CMP/FPLP	2F-C4x-43	6	18 (1.16)	7 x 26 AWG	WHITE	0.23 (5.8)	44 (65)
CL3P/CMP/FPLP	2F-C5x-43	8	18 (1.16)	7 x 26 AWG	WHITE	0.25 (6.4)	57 (85)
CL3P/CMP/FPLP	2F-C7x-43	12	18 (1.16)	7 x 26 AWG	WHITE	0.30 (7.6)	85 (126)

Packaging Options:

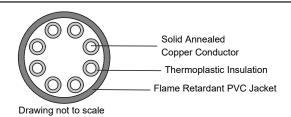
	Plastic Spool		Reel-in-a-Box		Wood Reel	Shrink Wrap	
	1,000'	500'	1,000'	500'	1,000'	250'	500'
¹Replace "x" with:	2	3	4	5	6	7	8



Datasheet

Cable Reference Drawing

CABLE F REFERENCE DRAWING



SUPERIOR ESSEX (www.superioressex.com)

PART No. PW52-H46-X5 (NON-PLENUM) & PW52-H46-X8 (PLENUM)

SPECIFICATIONS (SOLID): CATEGORY 5E+

PAIR COUNT: 4

CONDUCTOR: SOLID ANNEALED COPPER

AWG (mm): 22 (0.51)

INSULATION: CMR: POLYOLEFIN

CMP: FEP

INSULATION COLORS: PAIR 1: COLORTIP LIGHT BLUE, BLUE

PAIR 2: COLORTIP LIGHT ORANGE, ORANGE PAIR 3: COLORTIP LIGHT GREEN, GREEN PAIR 4: COLORTIP LIGHT BROWN, BROWN

JACKET: CMR: FLAME RETARDANT (FR) PVC

CMP: FR, LOW SMOKE PVC

CHARACTERISTIC IMPEDANCE Ohms: 100 ± 15
NOMINAL VELOCITY OF PROPAGATION %: CMP: 74

PERFORMANCE COMPLIANCE: 100 ± 15
CMR: 71
CMP: 74

PERFORMANCE COMPLIANCE: UL 444

CSA C22.2 No. 214-08

UL 1666 NFPA 262 ANSI/TIA-568-C.2 ANSI/ICEA S-90-661-2012

ANSI/ICEA S-90-661-2012 Article 800, NEC (NFPA 70) HDBaseT Class A and B NRTL PROGRAMS: UL Verified CAT 5e

UL, c(UL) Listed CMR UL, c(UL) Listed CMP HDBaseT Certified UL Certified EPD

SUSTAINABILITY: UL Certified EPI HPD

USGBC® Member

RoHS-compliant/RoHS 2-compliant

REACH-compliant

Temperature cable rating: 75°C for CMR and 90°C for CMP

PART NUMBERS AND PHYSICAL CHARACTERISTICS

Listing	Part Number¹	Nominal Diameter in (mm)	Approx. Weight lbs/kft (kg/km)	Package	Packages per Pallet
CMR	PW52-H46-x5	0.23 (4.6)	28 (25)	1,000 ft BrakeBox®	12
CMR	PW52-H72-x5	0.23 (4.6)	28 (25)	1,000 ft Plywood Reel	16
CMP	PW52-H46-x8	0.23 (4.8)	37 (28)	1,000 ft BrakeBox	12
CMP	PW52-H72-x8	0.23 (4.8)	37 (28)	1,000 ft Plywood Reel	16

JACKET COLORS

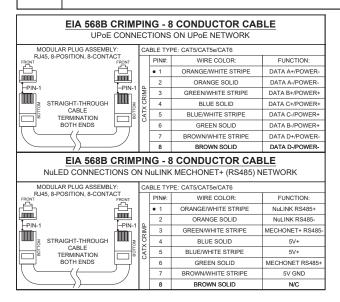
¹Replace "x" with:		Blue = 2		Gray = 3		White = 4		Green = 5	
	Yellow = 6	Р	urple = 7		Red = 9	В	lack = E		



Datasheet

Low Voltage Cable Legend and Crimping Instructions

LOW VOLTAGE CABLE LEGEND - EIA568B NOTES: 1. PARALLEL WIRING TO NEXT DEVICE PER BRANCH CIRCUIT CAPACITY. ALL CONNECTION MUST MEET NATIONAL AND LOCAL CODES AND REGULATIONS ADDRESS SCHEDULES REQUIRED. 3. MAXIMUM VOLTAGE FOR ALL UNMARKED CABLE IS 43.5 VDC. LOW VOLTAGE CABLES SHOULD NOT BE ROUTED NEAR POWER LINES OR ELECTRICAL DEVICES SUCH AS LIGHTING BALLASTS, DIMMERS AND LED DRIVERS THAT MAY EXPOSE THE SYSTEM TO EXCESSIVE ELECTRICAL NOISE. CAT5E+ - CABLE FOR UPOE NETWORK WIRING CONNECTIONS: 22AWG 4UTP (8-CONDUCTOR SOLID UNSHIELDED TWISTED PAIR) RJ-45 MODULAR PLUG CRIMPED (EIA568B) ON BOTH ENDS SUPERIOR ESSEX (WWW.SUPERIORESSEX.COM) PART NO. PW52-H46-X5 (NON-PLENUM) & PW52-H46-X8 (PLENUM) OR COMPATIBLE CABLE (F) DISTANCE LIMITATION: 328'. MAX. NODES: 1 SEE "CABLE F REFERENCE DRAWING" FOR DETAILED SPECIFICATION. (FURNISHED & INSTALLED BY OTHERS) CAT5E+ - CABLE FOR NULINK NETWORK WIRING CONNECTIONS: SPECIFICATION: 22AWG 4UTP (8-CONDUCTOR SOLID UNSHIELDED TWISTED PAIR) 22AWG 4UTP (8-CONDUCTOR SOLID UNSHIELDED TWISTED PAIR RJ-45 MODULAR PLUG CRIMPED (EIA568B) ON BOTH ENDS RECOMMENDED: SUPERIOR ESSEX (WWW.SUPERIORESSEX.COM) (F1) PART NO.PW52-H46-X5 (NON-PLENUM) & PW52-H46-X8 (PLENUM) OR COMPATIBLE CABLE DISTANCE LIMITATION: 50'. MAX. EIPS: 15 SEE CABLE "F" REFERENCE DRAWING FOR DETAILED SPECIFICATION. (FURNISHED & INSTALLED BY OTHERS) CABLE FOR SPICEBOX TO LIGHT (LOAD) FIXTURE WIRING CONNECTIONS: SPECIFICATION: 2 TO 12-CONDUCTOR, (18AWG UNSHIELDED) RECOMMENDED: SUPERIOR ESSEX (WWW.SUPERIORESSEX.COM 1-800-551-8948) LISTING NO. CL3R/CMR/FPLR (NON-PLENUM), & CL3P/CMP/FPLP (PLENUM) (G) DISTANCE LIMITATION: VARIES PER LOAD. MAX. LOADS: VARIES BY WATTS SEE CABLE "G" REFERENCE DRAWING FOR DETAILED SPECIFICATION. (FURNISHED & INSTALLED BY OTHERS)



Warranty

Mecho's warranty ensures its products against defects in materials and workmanship for up to 25 years. The warranty timeline shall vary for different products. For complete warranty information, please visit https://www.mechoshade.com/warranty or contact your Mecho® Representative.

Technical support

Mecho

T: +1 (800) 327-9798 (Follow prompts for Mecho® & Tech Support) E: techsupport@mechoshade.com W: www.mechoshade.com

Mecho® reserves the right to make improvements or changes to its products without prior notice. Every attempt is made to ensure the information herein is accurate and up to date. Verify with the Mecho® staff to confirm the product's availability, latest specifications, and suitability for your application.

